

## Patent Claims:

1. An anesthetic syringe having a feed piston that is longitudinally slidable within a carpule volume and that has a pressure plate which is connected to a first hydraulic chamber, *characterized in that* a second hydraulic chamber is provided in the syringe behind the first hydraulic chamber, said second hydraulic chamber being connected to said first hydraulic chamber so as to allow for regulation of the flow resistance.
2. The anesthetic syringe as set forth in claim 1, *characterized by* a separator piston that is disposed behind the second hydraulic chamber and that is slidably mounted so as to be capable of reducing the size of the second hydraulic chamber.
3. The anesthetic syringe as set forth in claim 2, *characterized in that* the separator piston is slidably mounted so as to be capable of enlarging a pressurization space, displacement of said separator piston so as to enlarge the pressurization space effecting a reduction in the size of the second hydraulic chamber.
4. The anesthetic syringe as set forth in claim 2, *characterized in that* if the pressurization space is enlarged by displacing the separator piston

the second hydraulic chamber is caused to become smaller by the same amount.

- 5      5.    The anesthetic syringe as set forth in any of the afore mentioned claims, ***characterized by*** a fitting for connecting a compressed gas supply to a pressurized space, more specifically by a receiving means for a gas cartridge.
- 10      6.    The anesthetic syringe as set forth in any of the aforementioned claims, ***characterized by*** a slide valve capable of closing or opening an opening of a control hole between the first and the second hydraulic chamber.
- 15      7.    The anesthetic syringe as set forth in claim 6, ***characterized in that*** the slide valve has a pressure plate that is connected to the first hydraulic chamber.
- 20      8.    The anesthetic syringe as set forth in claim 6 or 7, ***characterized in that*** a front element of the slide valve projects into the first hydraulic chamber.
9.    The anesthetic syringe as set forth in any of the claims 6 through 8, ***characterized in that*** the syringe comprises a key switch with a touch-sensitive surface that causes the control hole to open at least

substantially parallel to the axis of movement of the slide valve when pressed.

- 5 10. The anesthetic syringe as set forth in any of the afore mentioned claims, **characterized in that** a touch-sensitive surface of a key switch is disposed at least partially in a front half of the syringe.
- 10 11. The anesthetic syringe as set forth in any of the claims 6 through 10, **characterized in that** an axis of movement of a slide valve is disposed perpendicular to a longitudinal direction of the syringe.
12. The anesthetic syringe as set forth in any of the claims 6 through 11, **characterized in that** the slide valve is biased with a biasing force closing a control hole.
- 15 13. The anesthetic syringe as set forth in any of the afore mentioned claims, **characterized by** an indexer piston that is connected to the first hydraulic chamber.
- 20 14. The anesthetic syringe as set forth in claim 13, **characterized in that** a foot of the indexer piston projects into the first hydraulic chamber.
15. The anesthetic syringe as set forth in claim 13 or 14, **characterized in that** the indexer piston is slidably mounted so as to protrude at

least partially from the housing of the syringe, with a limit stop for limiting the exit thereof being provided.

- 5 16. The anesthetic syringe as set forth in any of the claims 13 through 15, *characterized in that* the indexer piston is mounted so as to be biased against an exit direction.
- 10 17. The anesthetic syringe as set forth in any of the afore mentioned claims, *characterized in that* the syringe comprises a special receiving means for a cannula.
- 15 18. The anesthetic syringe as set forth in any of the afore mentioned claims, *characterized in that*, in an inner end position, the feed piston completely lies within a feed cylinder.